CBOE Holdings, Inc. Form 4

December 23, 2015

Check this box

if no longer

subject to

Section 16.

Form 4 or

obligations

may continue.

Form 5

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

OMB Washington, D.C. 20549 Number:

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

See Instruction 1(b).

(Print or Type Responses)

| 1. Name and Address of Reporting Person * Tilly Edward T | | | 2. Issuer Name and Ticker or Trading Symbol | 5. Relationship of Reporting Person(s) to Issuer | | |
|--|----------|----------|--|--|--|--|
| | | | CBOE Holdings, Inc. [CBOE] | (Check all applicable) | | |
| (Last) | (First) | (Middle) | 3. Date of Earliest Transaction | | | |
| | | | (Month/Day/Year) | X Director 10% Owner | | |
| C/O CBOE HOLDINGS, INC., 400 SOUTH LASALLE STREET | | | 12/21/2015 | _X_ Officer (give title Other (specif | | |
| | | | | below) below) Chief Executive Officer | | |
| | (Street) | | 4. If Amendment, Date Original | 6. Individual or Joint/Group Filing(Check | | |
| | | | Filed(Month/Day/Year) | Applicable Line) | | |
| | | | • | _X_ Form filed by One Reporting Person | | |
| CHICAGO, | IL 60605 | | | Form filed by More than One Reporting | | |

| (City) | (State) | Table Table | e I - Non-D | erivative S | Secur | ities Acq | uired, Disposed o | f, or Beneficial | ly Owned |
|-----------------|---------------------|--------------------|--------------|-------------|-----------|--------------|-------------------|------------------|--------------|
| 1.Title of | 2. Transaction Date | 2A. Deemed | 3. | 4. Securit | ies A | cquired | 5. Amount of | 6. Ownership | 7. Nature of |
| Security | (Month/Day/Year) | Execution Date, if | Transactio | on(A) or Di | spose | d of (D) | Securities | Form: Direct | Indirect |
| (Instr. 3) | | any | Code | (Instr. 3, | 4 and | 5) | Beneficially | (D) or | Beneficial |
| | | (Month/Day/Year) | (Instr. 8) | | | | Owned | Indirect (I) | Ownership |
| | | | | | | | Following | (Instr. 4) | (Instr. 4) |
| | | | | | (4) | | Reported | | |
| | | | | | (A) | | Transaction(s) | | |
| | | | Code V | Amount | or (D) | Price | (Instr. 3 and 4) | | |
| Common Stock | 12/21/2015 | | S <u>(1)</u> | 6,250 | D | \$ 65.11 (2) | 90,599 | D | |
| | | | | | | (2) | | | |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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| 1. Title of | 2. | 3. Transaction Date | 3A. Deemed | 4. | 5. | 6. Date Exer | cisable and | 7. Titl | e and | 8. Price of | 9. Nu |
|-------------|-------------|---------------------|--------------------|------------|------------|--------------|-------------|---------|----------|-------------|--------|
| Derivative | Conversion | (Month/Day/Year) | Execution Date, if | Transacti | onNumber | Expiration D | ate | Amou | nt of | Derivative | Deriv |
| Security | or Exercise | | any | Code | of | (Month/Day/ | Year) | Under | lying | Security | Secur |
| (Instr. 3) | Price of | | (Month/Day/Year) | (Instr. 8) | Derivativ | e | | Securi | ities | (Instr. 5) | Bene |
| | Derivative | | | | Securities | 3 | | (Instr. | 3 and 4) | | Own |
| | Security | | | | Acquired | | | | | | Follo |
| | | | | | (A) or | | | | | | Repo |
| | | | | | Disposed | | | | | | Trans |
| | | | | | of (D) | | | | | | (Instr |
| | | | | | (Instr. 3, | | | | | | |
| | | | | | 4, and 5) | | | | | | |
| | | | | | | | | | Amount | | |
| | | | | | | | | | or | | |
| | | | | | | Date | Expiration | Title | Number | | |
| | | | | | | Exercisable | Date | | of | | |
| | | | | Code V | (A) (D) | | | | Shares | | |

Reporting Owners

| Reporting Owner Name / Address | | Relationships | | | | | | |
|--|----------|---------------|-------------------------|-------|--|--|--|--|
| Reporting Owner Name / Address | Director | 10% Owner | Officer | Other | | | | |
| Tilly Edward T C/O CBOE HOLDINGS, INC. 400 SOUTH LASALLE STREET CHICAGO, IL 60605 | X | | Chief Executive Officer | | | | | |

Signatures

/s/ Patrick Sexton, 12/23/2015 attorney-in-fact

**Signature of Reporting Person

Explanation of Responses:

- If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- The sale reported in this Form 4 was effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on February 19, **(1)** 2015.
- The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$64.70 to \$65.33, inclusive. The reporting person undertakes to provide to CBOE Holdings, Inc., any security holder of CBOE Holdings, Inc. or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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